

IN THE UNITED STATES INTERNATIONAL
PRELIMINARY EXAMINING AUTHORITY
UNDER THE PATENT COOPERATION TREATY



Applicant: FUSION SPECIALTIES, INC.

For: DISPLAY FORM HAVING MAGNETICALLY ATTACHABLE PARTS

Filed: 26 JANUARY 2001

Application No. PCT/US01/02711

Attorney Docket No. 11-00 WO

DECLARATION OF JACK NELLESSEN

Hon. Commissioner for Patents
BOX PCT
Washington, D.C. 20231

Sir:

I, Jack Nellesen, state as follows:

1. I am President of Master Magnetics, Inc., have been employed in this capacity for 25 years and am an expert in the field of magnets.
2. I am familiar with the magnetic joint of U.S. Patent 5,727,717 issued to Vigne and the magnetic joint of the present invention.
3. I have measured the depth-of-pull of a magnet assembly as described in the above mentioned Vigne patent. The Vigne patent describes a magnet assembly having a ferrite class 8A magnet (Col. 4, lines 21-22) with dimensions 100 mm by 25 mm by 25 mm and bright steel pole pieces 3/16" thick (Col 7, lines 37-41). The magnet assembly I tested had a ferrite class 8 (equivalent to class 8A) magnet of dimensions 100 mm by 25mm by 25 mm and steel pole pieces 3/16" thick equivalent to those described in the Vigne patent. I measured the depth-of-pull exerted by the magnet assembly at the location indicated by

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asterisk 94 in Figure 7B, which is where the strongest depth-of-pull forces were measured. Table 1 lists my measurements of the depth-of-pull exerted by the magnet assembly at different distances from the magnet. This information was presented in the first and third columns of Table 2 of the present application. The depth-of-pull exerted by the magnet assembly at a distance of one inch from the magnet is 110 gauss. This is an insufficient depth-of-pull to cause the magnet to begin to seek home at a distance of 1 inch from the attracted material.

Table 1

Distance from Magnet	Two-pole Strontium Ferrite Sandwich Assembly
Strongest contact on Pole Piece	1410 gauss
Strongest Point on Magnet	1410 gauss
1/32 inch air gap	1090 gauss
1/8 inch air gap	790 gauss
1/4 inch air gap	510 gauss
1/2 inch air gap	270 gauss
3/4 inch air gap	160 gauss
1 inch air gap	110 gauss

4. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon

Date: 11/29/01

Jack Nellesen
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